

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of: Young et al.

Application Serial No.: 09/154,707

Art Unit: 1633

Filed: September 17, 1998

Examiner: Martinell, J.

For: **Reticulocalbin-Like Protein**  
(as amended)

Attorney Docket No.: PZ004P1

ASSOCIATE POWER OF ATTORNEY

Assistant Commissioner for Patents  
Washington, D.C. 20231

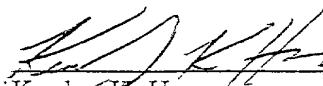
Sir:

Applicants' attorney hereby appoints all Practitioners at **Customer Number 22195** as its attorneys or agents with full power of substitution, association, and revocation to prosecute the application identified above, including any continuation or divisional applications, and to transact all business in the U.S. Patent and Trademark Office connected therewith.

Applicants' attorney also request that the correspondence address remain the same.

Respectfully submitted,

Dated: October 1, 2001

  
Kenley K. Hoover (Reg. No. 40,302)  
Attorney for Applicants

Human Genome Sciences, Inc.  
9410 Key West Avenue  
Rockville, MD 20850  
Telephone: (301) 610-5771

KKH/lcc

DECLARATION FOR PATENT APPLICATION

As a below named inventor, I declare that I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled:

**87 Human Secreted Proteins**

the specification of which was filed on September 17, 1998, Application Serial No. 09/154,707.

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Prior Foreign Application(s):

Priority Claimed  
Yes No

(Number) (Country) (Day/Month/Year Filed)

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PCT/US98/05311  
(Application Serial No.)

March 19, 1998  
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pending  
(Status: patented, pending, abandoned)

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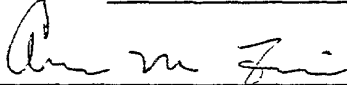
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Inventor's signature: \_\_\_\_\_ Date: \_\_\_\_\_  
Residence: 122 Beckwith Street, Gaithersburg, MD 20878 Citizenship: US  
Post Office Address: same as above

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Full name of additional joint inventor: Roxanne Duan

Inventor's signature: \_\_\_\_\_ Date: \_\_\_\_\_  
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Full name of first joint inventor: Jing-Shan Hu

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Full name of additional joint inventor: Reinhard Ebner

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Full name of first joint inventor: Laue A. Brewer

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Residence: 3142 Quesada St. NW Washington DC 20015 Citizenship: US  
Post Office Address: same as above

Full name of first joint inventor: Jian Ni

Inventor's signature: \_\_\_\_\_ Date: \_\_\_\_\_  
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Inventor's signature: \_\_\_\_\_ Date: \_\_\_\_\_  
Residence: 18528 Heritage Hills Drive, Olney, MD 20832 Citizenship: US  
Post Office Address: same as above

Full name of first joint inventor: Craig A. Rosen

Inventor's signature: \_\_\_\_\_ Date: \_\_\_\_\_  
Residence: 22400 Rolling Hill Road, Laytonsville, MD 20882 Citizenship: US  
Post Office Address: same as above

Full name of first joint inventor: Yanggu Shi

Inventor's signature: \_\_\_\_\_ Date: \_\_\_\_\_  
Residence: 437 West Side Drive, Gaithersburg, MD 20878 Citizenship: CN  
Post Office Address: same as above

Full name of additional joint inventor: David W. Lafleur

Inventor's signature: \_\_\_\_\_ Date: \_\_\_\_\_  
Residence: 3142 Quesada St. NW Washington DC 20015 Citizenship: US  
Post Office Address: same as above

Full name of first joint inventor: Jian Ni

Inventor's signature: \_\_\_\_\_ Date: \_\_\_\_\_  
Residence: 5502 Manorfield Road, Rockville, MD 20853 Citizenship: CN  
Post Office Address: same as above



Full name of additional joint inventor: Roxanne Duan

Inventor's signature: \_\_\_\_\_ Date: \_\_\_\_\_  
Residence: 5515 Northfield Road, Bethesda, MD 20817 Citizenship: US  
Post Office Address: same as above

Full name of first joint inventor: Jing-Shan Hu

Inventor's signature: \_\_\_\_\_ Date: \_\_\_\_\_  
Residence: 1247 Lakeside Drive #3034, Sunnyvale, CA 94086 Citizenship: CN  
Post Office Address: same as above

Full name of additional joint inventor: Kimberly Florence

Inventor's signature: \_\_\_\_\_ Date: \_\_\_\_\_  
Residence: 12805 Atlantic Avenue, Rockville, MD 20851 Citizenship: US  
Post Office Address: same as above

Full name of first joint inventor: Henrik S. Olsen

Inventor's signature: \_\_\_\_\_ Date: \_\_\_\_\_  
Residence: 182 Kendrick Place #24, Gaithersburg, MD 20878 Citizenship: DK  
Post Office Address: same as above

Full name of additional joint inventor: Reinhard Ebner

Inventor's signature: \_\_\_\_\_ Date: \_\_\_\_\_  
Residence: 9906 Shelburne Terrace #316, Gaithersburg, MD 20878 Citizenship: DE  
Post Office Address: same as above

Full name of first joint inventor: Laure A. Brewer *Laure A. Brewer*

Inventor's signature: \_\_\_\_\_ Date: Jan-27-97  
Residence: 410 Van Dyke St. Apt. 115 St. Paul, Minnesota 55119-4321 Citizenship: US  
Post Office Address: same as above

Full name of additional joint inventor: Paul A. Moore

Inventor's signature: \_\_\_\_\_ Date: \_\_\_\_\_  
Residence: 19005 Leatherbark Drive, Germantown, MD 20874 Citizenship: UK  
Post Office Address: same as above

**DECLARATION FOR PATENT APPLICATION**

As a below named inventor, I declare that I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled:

**87 Human Secreted Proteins**

the specification of which was filed on September 17, 1998, Application Serial No. 09/154,707.

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose information which is material to patentability as defined in 37 C.F.R. § 1.56.

I hereby claim foreign priority benefits under 35 U.S.C. § 119(a)-(d) or § 365(b) of any foreign application(s) for patent or inventor's certificate, or § 365(a) of any PCT international application, which designated at least one country other than the United States listed below, and have also identified below any foreign application for patent or inventor's certificate, or PCT international application having a filing date before that of the application on which priority is claimed.

Prior Foreign Application(s):

Priority Claimed  
Yes No

(Number) (Country) (Day/Month/Year Filed)

I hereby claim the benefit under 35 U.S.C. § 119(e) of any United States provisional application(s) listed below.

	Filing Date	Appln No.			
1.	21-Mar-1997	60/041,277	13.	30-May-1997	60/048,186
2.	21-Mar-1997	60/042,344	14.	30-May-1997	60/048,069
3.	21-Mar-1997	60/041,276	15.	30-May-1997	60/048,095
4.	21-Mar-1997	60/041,281	16.	30-May-1997	60/048,131
5.	30-May-1997	60/048,094	17.	30-May-1997	60/048,096
6.	30-May-1997	60/048,350	18.	30-May-1997	60/048,355
7.	30-May-1997	60/048,188	19.	30-May-1997	60/048,160
8.	30-May-1997	60/048,135	20.	30-May-1997	60/048,351
9.	30-May-1997	60/050,937	21.	30-May-1997	60/048,154
10.	30-May-1997	60/048,187	22.	05-Aug-1997	60/054,804
11.	30-May-1997	60/048,099	23.	19-Aug-1997	60/056,370
12.	30-May-1997	60/048,352	24.	02-Oct-1997	60/060,862

I hereby claim the benefit under 35 U.S.C. § 120 of any United States application(s), of any PCT international application designating the United States, listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States or PCT international application in the manner provided by the first paragraph of 35 U.S.C. § 112, I acknowledge the duty to disclose information that is material to patentability as defined in 37 C.F.R. § 1.56 that became available between the filing date of the prior application and the national or PCT international filing date of this application.

PCT/US98/05311

(Application Serial No.)

March 19, 1998

(Filing Date)

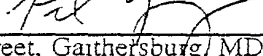
pending

(Status: patented, pending, abandoned)

I hereby appoint the following attorney(s) and/or agent(s) to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith A. Anders Brookes (Reg. No. 36,373), James H. Davis (Reg. No. 40,582) and Kenley K. Hoover (Reg. No. 40,302) of Human Genome Sciences, Inc. 9410 Key West Avenue, Rockville, Maryland, 20878.

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Full name of first joint inventor: Paul Young

Inventor's signature:  Date: 1/20/99  
Residence: 122 Beckwith Street, Gaithersburg, MD 20878 Citizenship: US  
Post Office Address: same as above


Full name of additional joint inventor: John M. Greene

Inventor's signature: \_\_\_\_\_ Date: \_\_\_\_\_  
Residence: 872 Diamond Drive, Gaithersburg, MD 20989 Citizenship: US  
Post Office Address: same as above


Full name of first joint inventor: Ann M. Ferrie

Inventor's signature: \_\_\_\_\_ Date: \_\_\_\_\_  
Residence: 120 Fox Run Drive Tewksbury, MA 01876 Citizenship: US  
Post Office Address: same as above

Full name of additional joint inventor: Steven M. Ruben

Inventor's signature:  Date: 1/20/99  
Residence: 18528 Heritage Hills Drive, Olney, MD 20832 Citizenship: US  
Post Office Address: same as above

Full name of first joint inventor: Craig A. Rosen

Inventor's signature:  Date: 1/23/99  
Residence: 22400 Rolling Hill Road, Laytonsville, MD 20882 Citizenship: US  
Post Office Address: same as above

Full name of additional joint inventor:

Roxanne Duan

Inventor's signature:

*Roxanne Duan*

Date:

3/23/99

Residence:

5515 Northfield Road, Bethesda, MD 20817

Citizenship:

US

Post Office Address:

same as above

Full name of first joint inventor:

Jing-Shan Hu

Inventor's signature:

Date:

Residence:

1247 Lakeside Drive #3034, Sunnyvale, CA 94086

Citizenship:

CN

Post Office Address:

same as above

Full name of additional joint inventor:

Kimberly Florence

Inventor's signature:

*Kimberly Florence*

Date:

1/22/99

Residence:

12805 Atlantic Avenue, Rockville, MD 20851

Citizenship:

US

Post Office Address:

same as above

Full name of first joint inventor:

Henrik S. Olsen

Inventor's signature:

*Henrik Steen Olsen*

Date:

1/19/99

Residence:

182 Kendrick Place #24, Gaithersburg, MD 20878

Citizenship:

DK

Post Office Address:

same as above

Full name of additional joint inventor:

Reinhard Ebner

Inventor's signature:

*R. Ebner*

Date:

1/20/99

Residence:

9906 Shelburne Terrace #316, Gaithersburg, MD 20878

Citizenship:

DE

Post Office Address:

same as above

Full name of first joint inventor:

Laure A. Brewer

Inventor's signature:

Date:

Residence:

410 Van Dyke St. Apt. 115 St. Paul, Minnesota 55119-4321

Citizenship:

US

Post Office Address:

same as above

Full name of additional joint inventor:

Paul A. Moore

Inventor's signature:

*Paul A. Moore*

Date:

1/20/99

Residence:

19005 Leatherbark Drive, Germantown, MD 20874

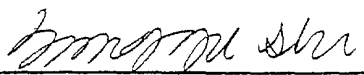
Citizenship:

UK

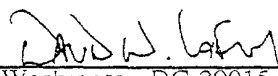
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same as above

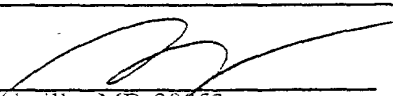
Full name of first joint inventor: Yanggu Shi

Inventor's signature:  Date: 1/20/99  
Residence: 437 West Side Drive, Gaithersburg, MD 20878 Citizenship: CN  
Post Office Address: same as above

Full name of additional joint inventor: David W. Lafleur

Inventor's signature:  Date: 1/20/99  
Residence: 3142 Quesada St. NW Washington DC 20015 Citizenship: US  
Post Office Address: same as above

Full name of first joint inventor: Jian Ni

Inventor's signature:  Date: 1/20/99  
Residence: 5502 Manorfield Road, Rockville, MD 20853 Citizenship: CN  
Post Office Address: same as above

## ASSIGNMENT

For good and valuable consideration, the receipt of which is hereby acknowledged, each of the undersigned, **Paul Young; John M. Greene; Ann M. Ferrie; Steven M. Ruben; Craig A. Rosen; Roxanne Duan; Jing-Shan Hu; Kimberly Florence; Henrik S. Olsen; Reinhard Ebner; Lauie A. Brewer; Paul A. Moore; Yanggu Shi; David W. Lafleur and Jian Ni**

hereby sell(s), assign(s) and transfer(s) to Human Genome Sciences, Inc. ("Assignee") having a place of business at 9410 Key West Avenue, Rockville, MD 20850, its successors, assigns and legal representatives, his entire right, title and interest for the United States and all other countries, in and to the improvements(s) known as:

### 87 Human Secreted Proteins

for which application for United States Letters Patent was filed on **September 17, 1998** and assigned Serial No. **09/154,707**, and in and to said application and all divisional, continuing, substitute, renewal, reissue and all other applications for Letters Patent which have been or shall be filed in the United States and all other countries on any of said improvements, and in and to all original and reissued patents which have been or shall be issued in the United States and all other countries on said improvements (hereinafter collectively, the "Patent Rights").

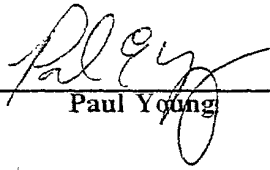
The undersigned further agrees that said Assignee may apply for and receive Letters Patent for said improvements in its own name; and, when requested, without charge to but at the expense of Assignee, its successors, assigns and legal representatives, to carry out in good faith the intent and purpose of this assignment, the undersigned will execute all divisional, continuing, substitute, renewal, reissue and all other patent applications on all such improvements; execute all rightful oaths, assignments, powers of attorney and other papers; communicate to said Assignee, its successors, assigns and representatives all facts known to the undersigned relating to said improvements and the history thereof; and do everything possible which said Assignee, its successors, assigns or representatives shall consider desirable for aiding in securing and maintaining proper patent protection for said improvements and for vesting title to said improvements and all applications for patent and all patents on said improvements in Assignee, its successors, assigns and representatives.

The undersigned hereby represents and warrants to Assignee, its successors, assigns and representatives that no assignment, grant, mortgage, license or other right or agreement affecting the rights and property herein conveyed has been made to others by the undersigned and that full right to convey the same as expressed herein is possessed by the undersigned.

The undersigned hereby grants the power to A. Anders Brookes (Reg. No. 36,373), James H. Davis (Reg. No. 40,582) and Kenley Hoover (Reg. No. 40,302) of Human Genome Sciences, Inc., 9410 Key West Avenue, Rockville, Maryland, 20850 to insert on this Assignment any further identification which may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this document.

IN WITNESS WHEREOF, this Assignment is executed by the undersigned on the date(s) opposite their signature(s):

Inventor's Signature: \_\_\_\_\_

  
Paul Young

Date: \_\_\_\_\_

1/20/99

Inventor's Signature: \_\_\_\_\_

John M. Greene

Date: \_\_\_\_\_

Inventor's Signature: \_\_\_\_\_ Date: \_\_\_\_\_  
Ann M. Ferrie

Inventor's Signature: \_\_\_\_\_ Date: 1/20/99  
Steven M. Ruben

Inventor's Signature: \_\_\_\_\_ Date: 1/23/99  
Craig A. Rosen,

Inventor's Signature: \_\_\_\_\_ Date: 3/23/93  
D. Roxanne Duan  
Roxanne Duan

Inventor's Signature: \_\_\_\_\_ Date: \_\_\_\_\_  
Jing-Shan Hu

Inventor's Signature: \_\_\_\_\_ Date: 1/22/99  
Kimberly Florence  
Kimberly Florence

Inventor's Signature: \_\_\_\_\_ Date: 1/20/99  
Henrik S. Olsen  
Henrik S. Olsen

Inventor's Signature: \_\_\_\_\_ Date: 1/20/99  
Reinhard Ebner  
Reinhard Ebner

Inventor's Signature: \_\_\_\_\_ Date: \_\_\_\_\_  
Laure A. Brewer  
Laure A. Brewer

Inventor's Signature: \_\_\_\_\_ Date: 1/20/99  
Paul A. Moore  
Paul A. Moore

Inventor's Signature: \_\_\_\_\_

Samuel H. H.

Yanggu Shi

Date:

1/20/99

Inventor's Signature: \_\_\_\_\_

David W. Lafleur

David W. Lafleur

Date: \_\_\_\_\_

1	20	99
---	----	----

Inventor's Signature: \_\_\_\_\_

*[Signature]*

**Jian Ni**

Date: \_\_\_\_\_

1/20/39



**ASSIGNMENT**

For good and valuable consideration, the receipt of which is hereby acknowledged, each of the undersigned, **Paul Young; John M. Greene; Ann M. Ferrie; Steven M. Ruben; Craig A. Rosen; Roxanne Duan; Jing-Shan Hu; Kimberly Florence; Henrik S. Olsen; Reinhard Ebner; Lauie A. Brewer; Paul A. Moore; Yanggu Shi; David W. Lafleur and Jian Ni**

hereby sell(s), assign(s) and transfer(s) to Human Genome Sciences, Inc. ("Assignee") having a place of business at 9410 Key West Avenue, Rockville, MD 20850, its successors, assigns and legal representatives, his entire right, title and interest for the United States and all other countries, in and to the improvements(s) known as:

**87 Human Secreted Proteins**

for which application for United States Letters Patent was filed on **September 17, 1998** and assigned Serial No. **09/154,707**, and in and to said application and all divisional, continuing, substitute, renewal, reissue and all other applications for Letters Patent which have been or shall be filed in the United States and all other countries on any of said improvements, and in and to all original and reissued patents which have been or shall be issued in the United States and all other countries on said improvements (hereinafter collectively, the "Patent Rights").

The undersigned further agrees that said Assignee may apply for and receive Letters Patent for said improvements in its own name; and, when requested, without charge to but at the expense of Assignee, its successors, assigns and legal representatives, to carry out in good faith the intent and purpose of this assignment, the undersigned will execute all divisional, continuing, substitute, renewal, reissue and all other patent applications on all such improvements; execute all rightful oaths, assignments, powers of attorney and other papers; communicate to said Assignee, its successors, assigns and representatives all facts known to the undersigned relating to said improvements and the history thereof; and do everything possible which said Assignee, its successors, assigns or representatives shall consider desirable for aiding in securing and maintaining proper patent protection for said improvements and for vesting title to said improvements and all applications for patent and all patents on said improvements in Assignee, its successors, assigns and representatives.

The undersigned hereby represents and warrants to Assignee, its successors, assigns and representatives that no assignment, grant, mortgage, license or other right or agreement affecting the rights and property herein conveyed has been made to others by the undersigned and that full right to convey the same as expressed herein is possessed by the undersigned.

The undersigned hereby grants the power to A. Anders Brookes (Reg. No. 36,373), James H. Davis (Reg. No. 40,582) and Kenley Hoover (Reg. No. 40,302) of Human Genome Sciences, Inc., 9410 Key West Avenue, Rockville, Maryland, 20850 to insert on this Assignment any further identification which may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this document.

IN WITNESS WHEREOF, this Assignment is executed by the undersigned on the date(s) opposite their signature(s):

Inventor's Signature: \_\_\_\_\_ Date: \_\_\_\_\_  
**Paul Young**

Inventor's Signature: \_\_\_\_\_ Date: \_\_\_\_\_  
**John M. Greene**

Inventor's Signature: \_\_\_\_\_ Date: \_\_\_\_\_  
Ann M. Ferrie

Inventor's Signature: \_\_\_\_\_ Date: \_\_\_\_\_  
Steven M. Ruben

Inventor's Signature: \_\_\_\_\_ Date: \_\_\_\_\_  
Craig A. Rosen,

Inventor's Signature: \_\_\_\_\_ Date: \_\_\_\_\_  
Roxanne Duan

Inventor's Signature: \_\_\_\_\_ Date: \_\_\_\_\_  
Jing-Shan Hu

Inventor's Signature: \_\_\_\_\_ Date: \_\_\_\_\_  
Kimberly Florence

Inventor's Signature: \_\_\_\_\_ Date: \_\_\_\_\_  
Henrik S. Olsen

Inventor's Signature: \_\_\_\_\_ Date: \_\_\_\_\_  
Reinhard Ebner

Inventor's Signature: \_\_\_\_\_ Date: 1/27/99  
Laurie A. Brewer

Inventor's Signature: \_\_\_\_\_ Date: \_\_\_\_\_  
Paul A. Moore

Inventor's Signature: Yanggu Shi Date: \_\_\_\_\_

Inventor's Signature: David W. Lafleur Date: \_\_\_\_\_

Inventor's Signature: Jian Ni Date: \_\_\_\_\_

## ASSIGNMENT

For good and valuable consideration, the receipt of which is hereby acknowledged, each of the undersigned, **Paul Young; John M. Greene; Ann M. Ferrie; Steven M. Ruben; Craig A. Rosen; Roxanne Duan; Jing-Shan Hu; Kimberly Florence; Henrik S. Olsen; Reinhard Ebner; Laurie A. Brewer; Paul A. Moore; Yanggu Shi; David W. Lafleur and Jian Ni**

hereby sell(s), assign(s) and transfer(s) to Human Genome Sciences, Inc. ("Assignee") having a place of business at 9410 Key West Avenue, Rockville, MD 20850, its successors, assigns and legal representatives, his entire right, title and interest for the United States and all other countries, in and to the improvements(s) known as:

**87 Human Secreted Proteins**

for which application for United States Letters Patent was filed on **September 17, 1998** and assigned Serial No. **09/154,707**, and in and to said application and all divisional, continuing, substitute, renewal, reissue and all other applications for Letters Patent which have been or shall be filed in the United States and all other countries on any of said improvements, and in and to all original and reissued patents which have been or shall be issued in the United States and all other countries on said improvements (hereinafter collectively, the "Patent Rights").

The undersigned further agrees that said Assignee may apply for and receive Letters Patent for said improvements in its own name; and, when requested, without charge to but at the expense of Assignee, its successors, assigns and legal representatives, to carry out in good faith the intent and purpose of this assignment, the undersigned will execute all divisional, continuing, substitute, renewal, reissue and all other patent applications on all such improvements; execute all rightful oaths, assignments, powers of attorney and other papers; communicate to said Assignee, its successors, assigns and representatives all facts known to the undersigned relating to said improvements and the history thereof; and do everything possible which said Assignee, its successors, assigns or representatives shall consider desirable for aiding in securing and maintaining proper patent protection for said improvements and for vesting title to said improvements and all applications for patent and all patents on said improvements in Assignee, its successors, assigns and representatives.

The undersigned hereby represents and warrants to Assignee, its successors, assigns and representatives that no assignment, grant, mortgage, license or other right or agreement affecting the rights and property herein conveyed has been made to others by the undersigned and that full right to convey the same as expressed herein is possessed by the undersigned.

The undersigned hereby grants the power to A. Anders Brookes (Reg. No. 36,373), James H. Davis (Reg. No. 40,582) and Kenley Hoover (Reg. No. 40,302) of Human Genome Sciences, Inc., 9410 Key West Avenue, Rockville, Maryland, 20850 to insert on this Assignment any further identification which may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this document.

IN WITNESS WHEREOF, this Assignment is executed by the undersigned on the date(s) opposite their signature(s):

Inventor's Signature: \_\_\_\_\_ Date: \_\_\_\_\_  
Paul Young

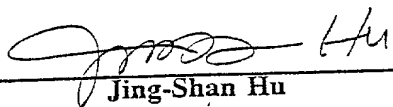
Inventor's Signature: \_\_\_\_\_ Date: \_\_\_\_\_  
John M. Greene

Inventor's Signature: \_\_\_\_\_ Date: \_\_\_\_\_  
Ann M. Ferrie

Inventor's Signature: \_\_\_\_\_ Date: \_\_\_\_\_  
Steven M. Ruben

Inventor's Signature: \_\_\_\_\_ Date: \_\_\_\_\_  
Craig A. Rosen,

Inventor's Signature: \_\_\_\_\_ Date: \_\_\_\_\_  
Roxanne Duan

Inventor's Signature:  \_\_\_\_\_ Date: 1/25/99  
Jing-Shan Hu

Inventor's Signature: \_\_\_\_\_ Date: \_\_\_\_\_  
Kimberly Florence

Inventor's Signature: \_\_\_\_\_ Date: \_\_\_\_\_  
Henrik S. Olsen

Inventor's Signature: \_\_\_\_\_ Date: \_\_\_\_\_  
Reinhard Ebner

Inventor's Signature: \_\_\_\_\_ Date: \_\_\_\_\_  
Laurie A. Brewer

Inventor's Signature: \_\_\_\_\_ Date: \_\_\_\_\_  
Paul A. Moore

Inventor's Signature: \_\_\_\_\_ Date: \_\_\_\_\_  
Yanggu Shi

Inventor's Signature: \_\_\_\_\_ Date: \_\_\_\_\_  
David W. Lafleur

Inventor's Signature: \_\_\_\_\_ Date: \_\_\_\_\_  
Jian Ni

# ASSIGNMENT

For good and valuable consideration, the receipt of which is hereby acknowledged, each of the undersigned, **Paul Young; John M. Greene; Ann M. Ferrie; Steven M. Ruben; Craig A. Rosen; Roxanne Duan; Jing-Shan Hu; Kimberly Florence; Henrik S. Olsen; Reinhard Ebner; Lauie A. Brewer; Paul A. Moore; Yanggu Shi; David W. Laffleur and Jian Ni**

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## 87 Human Secreted Proteins

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IN WITNESS WHEREOF, this Assignment is executed by the undersigned on the date(s) opposite their signature(s):

Inventor's Signature: \_\_\_\_\_ Date: \_\_\_\_\_  
Paul Young

Inventor's Signature: John M. Greene Date: JAN 21, 1999  
John M. Greene

Inventor's Signature: \_\_\_\_\_ Date: \_\_\_\_\_  
Ann M. Ferrie

Inventor's Signature: \_\_\_\_\_ Date: \_\_\_\_\_  
Steven M. Ruben

Inventor's Signature: \_\_\_\_\_ Date: \_\_\_\_\_  
Craig A. Rosen,

Inventor's Signature: \_\_\_\_\_ Date: \_\_\_\_\_  
Roxanne Duan

Inventor's Signature: \_\_\_\_\_ Date: \_\_\_\_\_  
Jing-Shan Hu

Inventor's Signature: \_\_\_\_\_ Date: \_\_\_\_\_  
Kimberly Florence

Inventor's Signature: \_\_\_\_\_ Date: \_\_\_\_\_  
Henrik S. Olsen

Inventor's Signature: \_\_\_\_\_ Date: \_\_\_\_\_  
Reinhard Ebner

Inventor's Signature: \_\_\_\_\_ Date: \_\_\_\_\_  
Laue A. Brewer

Inventor's Signature: \_\_\_\_\_ Date: \_\_\_\_\_  
Paul A. Moore



Inventor's Signature: \_\_\_\_\_ Date: \_\_\_\_\_  
Yanggu Shi

Inventor's Signature: \_\_\_\_\_ Date: \_\_\_\_\_  
David W. Lafleur

Inventor's Signature: \_\_\_\_\_ Date: \_\_\_\_\_  
Jian Ni

## ASSIGNMENT

For good and valuable consideration, the receipt of which is hereby acknowledged, each of the undersigned, Paul Young; John M. Greene; Ann M. Ferrie; Steven M. Ruben; Craig A. Rosen; Roxanne Duan; Jing-Shan Hu; Kimberly Florence; Henrik S. Olsen; Reinhard Ebner; Laurie A. Brewer; Paul A. Moore; Yanggu Shi; David W. Lafleur and Jian Ni

hereby sell(s), assign(s) and transfer(s) to Human Genome Sciences, Inc. ("Assignee") having a place of business at 9410 Key West Avenue, Rockville, MD 20850, its successors; assigns and legal representatives, his entire right, title and interest for the United States and all other countries, in and to the improvements(s) known as:

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for which application for United States Letters Patent was filed on September 17, 1998 and assigned Serial No. 09/154,707, and in and to said application and all divisional, continuing, substitute, renewal, reissue and all other applications for Letters Patent which have been or shall be filed in the United States and all other countries on any of said improvements, and in and to all original and reissued patents which have been or shall be issued in the United States and all other countries on said improvements (hereinafter collectively, the "Patent Rights").

The undersigned further agrees that said Assignee may apply for and receive Letters Patent for said improvements in its own name; and, when requested, without charge to but at the expense of Assignee, its successors, assigns and legal representatives, to carry out in good faith the intent and purpose of this assignment, the undersigned will execute all divisional, continuing, substitute, renewal, reissue and all other patent applications on all such improvements; execute all rightful oaths, assignments, powers of attorney and other papers; communicate to said Assignee, its successors, assigns and representatives all facts known to the undersigned relating to said improvements and the history thereof; and do everything possible which said Assignee, its successors, assigns or representatives shall consider desirable for aiding in securing and maintaining proper patent protection for said improvements and for vesting title to said improvements and all applications for patent and all patents on said improvements in Assignee, its successors, assigns and representatives.

The undersigned hereby represents and warrants to Assignee, its successors, assigns and representatives that no assignment, grant, mortgage, license or other right or agreement affecting the rights and property herein conveyed has been made to others by the undersigned and that full right to convey the same as expressed herein is possessed by the undersigned.

The undersigned hereby grants the power to A. Anders Brookes (Reg. No. 36,373), James H. Davis (Reg. No. 40,582) and Kenley Hoover (Reg. No. 40,302) of Human Genome Sciences, Inc., 9410 Key West Avenue, Rockville, Maryland, 20850 to insert on this Assignment any further identification which may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this document.

IN WITNESS WHEREOF, this Assignment is executed by the undersigned on the date(s) opposite their signature(s):

Inventor's Signature: \_\_\_\_\_ Date: \_\_\_\_\_  
Paul Young

Inventor's Signature: \_\_\_\_\_ Date: \_\_\_\_\_  
John M. Greene

Inventor's Signature: Ann M. Ferrie Date: 1/25/99

Inventor's Signature: Steven M. Ruben Date: \_\_\_\_\_

Inventor's Signature: Craig A. Rosen, Date: \_\_\_\_\_

Inventor's Signature: Roxanne Duan Date: \_\_\_\_\_

Inventor's Signature: Jing-Shan Hu Date: \_\_\_\_\_

Inventor's Signature: Kimberly Florence Date: \_\_\_\_\_

Inventor's Signature: Henrik S. Olsen Date: \_\_\_\_\_

Inventor's Signature: Reinhard Ebner Date: \_\_\_\_\_

Inventor's Signature: Laure A. Brewer Date: \_\_\_\_\_

Inventor's Signature: Paul A. Moore Date: \_\_\_\_\_

Inventor's Signature: \_\_\_\_\_ Date: \_\_\_\_\_  
Yanggu Shi

Inventor's Signature: \_\_\_\_\_ Date: \_\_\_\_\_  
David W. Lafleur

Inventor's Signature: \_\_\_\_\_ Date: \_\_\_\_\_  
Jian Ni